

H 6409

to

H 6453 inclus.

Station No. *H 6409* Date: *Apr. 20* 191*6*

Hour: *7:10* A. M. to *7:55* P. M.

Position: Lat. _____ Long. _____

Locality: *Colnett Bay, Lower Calif*

Depth: *9 fms* ^(hard line) Bottom: *gy S blk M* Sample: _____

Wind: Direction, *Calm* Force, *0*

Sea: *Ground swell* Sky: *bg - Ci Cu - 3*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>meters</i>							
5	RN-298260	55.9	<i>No stem thermometer</i>	-.5	55.4		E #2
	LN-271738	56.0		-.8	55.2		
				(—————)			
10	RS-V 805	11.9	13.	+0.8	11.98		#1
	2(R 150)	11.9	13.1	0	11.90		
15	RS-V 496	10.9	10.3	0	10.9		#4
	LS-V 494	11.2	10.2	—			
Surf.	N-298573	55.9		-.3	55.6		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
<i>Surf</i>						

Color of water: _____ Transparency: _____

REMARKS: _____ 11-5314

Spunkil - Rec.

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
4' Inter.; #12 & #20 nets	9 surf	7:42	7:55	current
Vertical haul, ship at anchor, no tidal current running				

11-5314

NOTES

Thermos down 5 m, 7:16-7:21

Sounding 7:48-7:51 = 19 meters, gy S blk TT
(elec. machine)

Chart 1149

Cape Cod Lt bears N ⁸³ N (true) distant 1.25 miles.
San Tel Lt S 64 E " " 3.0 "

Psych. Temp.
corrected readings
630 wet 13.6
900 wet 15.2

Depth in fms. obtained from forward
by quadrant

hum 86

6³⁰ a.m. Apr. 21 Psychrometer W. 13.5 D 15.0
7⁴² a.m. Apr. 21 surf. temp. (n. 2. #98523) 56.2 ²⁰ 55.9
water sample taken (~~#1514~~) hum
9⁰⁰ a.m. 4/21/16 Psych. W. 15.1 D. 16.6 - 86
surf. temp. (n. 2. #98523) 55.1 ⁰ 54.8
water sample taken (~~#1283~~)

Station No. 6410

Date: Apr 21/16

191

Hour: 11⁰⁰ am A. M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: Sky:

TEMPERATURES

[illegible]

CURRENTS

[illegible]

Color of water: Transparency:

REMARKS: Sample taken while ship under way 11-5314
Rough

191

. M.

Long.

Locality:

Sample:

Force,

Skv:

TEMPERATURES

[illegible]

CURRENTS

[illegible]

Transparency:

REMARKS: Ship under way
Rising

11—5314

191 *b*

Hour: 3:00 P. M. to . M.

Position: Lat. Long.

Locality:

Depth: Bottom: Sample:

Wind: Direction, Force,

Sea: Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
surf.	n2 98523	58.0°		-.3	57.7	X	—
					(c 14.28)		

CURRENTS

[illegible]

Color of water:

Transparency:

REMARKS:

11—5314

Ship under way - shaper

NETS, ETC., USED

[illegible]

11—5314

NOTES

Psychrometer W. ~~14.5~~ D. 16.0
14.6 Hum. 86

chart 1149

Lt Tang Cape San. N 79 1/2 W True
 27° 15'
 579° E

191 b

Hour: 6:30 P. M. to 7:54 P. M.

Position: Lat. _____ Long. _____

Locality: San Quentin Bay Lower Calif.

Depth: 13 meters Bottom: gy S fine Sample:

Wind: Direction, *S.W.* Force, *2*

Sea: *2* Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	NZ 98523	57.2		- .3	56.9		
				(c)	13.83		
5 m	S-V 496	R 13.65	14.0	+ 0.2	13.85		#4
	S-V 494	L 13.7	14.1				
10 m	S-V 805	R 13.4	13.8	0	13.4		#1
	R 150	L 13.4	13.8	+ .05	13.45		

CURRENTS

[illegible]

Color of water: Transparency:

REMARKS:

11—5314

C. E. Red Long.

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
4' Lute, #12 and #20 15.0 th Weight		7:12	7:54	
No current sent back				

11-5314

NOTES

Thermometer 83.5 up 6.57
Anchored in 9 fms. 6.11

Electric H. tried for 5 min.
at 830 p.m. caught several
fish. light landed.

Lat 11-17
Long 157-20
S 77° E. True
dist 1.25

Log 17 ~~12.0~~ 13.5 13.9 - 14.6

Station No. 441112 Date: Dec. 5 1914

Hour: 7:15 a. M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: 10000 Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: Sky:

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

NETS, ETC., USED

[illegible]

11—5314

NOTES

Polychaetes no. ~~447~~ D. 15, 7

91%

Oct 11/93

Dr. Julius A. J. ...

Station No *H 64-17*

Date: *April 22* 191*6*

Hour: 1:00 P. M. to ~~2:00~~ M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	1155	62.1°		-.3	61.8	X	—
				(c 16.56)			

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

High water, very shallow

NETS, ETC., USED

[illegible]

11—5314.

NOTES

Psychrometer W. ~~45.0~~^{15.1}° D. 17.0°
81%

Chart 1193

2010 10 26 10:26

Station No. *H 64.5*

Date: April 22 1916

Hour: 3⁰⁰ P. M. to — . M.

Position: Lat. 33° 30' N Long. 118° 15' W

Locality:

Depth: Bottom: Sample:

Wind: Direction, Force,

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
surf.	N. Z. 9523	62.2°		- .3	61.9	✓	—
				(C	16.61)		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11—5414

MARKS: *trip under way - chapter*

Station No. 116419

Date: April 22 1916

Hour: 5⁰⁰ P. M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	W. Z. 98523	61.1°		- .3	60.8		
				(C 16.00)			

CURRENTS

[illegible]

Color of water:

Transparency:

REMARKS:

11—5314

Stief kinder weg

Station No. *H 6420* Date: *Apr 22* 191*6*

Hour: *8.18* - P. M. to *9.15* P. M.

Position: Lat. _____ Long. _____

Locality: *Off Cape Cod, S. of Nantuxet Pt.*

Elect. *oxygen*
Depth: *271* Bottom: *sl. m.* Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
	N-Z 98523	61.6		-.3	60.3 (61.5714)		
	N-Z 98256			-.4	59.8		
	N-Z 62855			-.5	59.8		
	S-V 497	15.1	15.1	+0.5	15.50		
	S-V 493	15.48	15.0				
	N-Z 98260	56.0		-.5	55.5		
	N-Z 71738	56.2		-.8	55.4		
15	S-V 805	11.6	14.6	-.05	11.55		
	R 150	11.6	14.8	-.05	11.55		
30	S-V 496	11.6	14.4	+0.05	11.6		
32	S-V 494	11.6	14.5				

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: _____

Transparency: _____

REMARKS: _____

11-5314

Ship at anchor

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
4' 2" ...		8:38.0		

11-5314

NOTES

Down 8.38. - Up 8.43. -

Bleed light used -
5' ...

7₃₀ Psychrometer W. 74.5° D. 16.8°
100 1970

Surf temp 25.1°C, ...
and ...

Surf temp 7.2. 1970 60.8° 15.53
Water sample was taken

Psychrometer W. 74.5° D. 16.6°
100 74%

at 11:00 A.M. 14.1
Psychrometer W. 74.5° D. 16.1°
no water sample taken 80%

... and ... 59E ... 3.4

Station No. *H 6421* Date: *Oct 23* 191*6*

Date: 11/22/1912

Hour: 1st P.M. . M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
surf	72.93523	62.0		- .3	61.7 61.68	X	—

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 2nd p (under way)
Shaffer

11—5314

NETS, ETC., USED

[illegible]

11-5314

NOTES

Wage meter m: 14.7° D. 16.3°
14.9 86%

1310

19. ... 7000 ... 500 ... 700 ...

Date: April 22 1915

Hour: 3⁰⁰ P. . M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: Sky:

TEMPERATURES

Depth	Thermometer-- Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
surf	W. 78523	60.0°		-.3	59.7 15.39	X	—

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11—5314

Ship under way
DRAFT

Station No. *25 6422* Date: *Feb. 23* 191*6*

Hour: *6:43* P. M. to *7:55* P. M.

Position: Lat. _____ Long. _____

Locality: *San Blas Bay, Col.*

Depth: ** 5 1/2 fms.* Bottom: *fine gy. S* Sample: _____

Wind: Direction, *WSW* Force, *1*

Sea: *S.* Sky: *bcy Cls 2*

TEMPERATURES

Depth	Thermometer - Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>7 fms.</i>	<i>N-2 98256</i>	<i>59.0</i>	<i>-</i>	<i>-.4</i>	<i>58.6</i>		<i>EK 5</i>
	<i>N-2 62555</i>	<i>59.0</i>	<i>-</i>	<i>-.5</i>	<i>58.5</i>		
<i>Surf</i>	<i>N-2 98523</i>	<i>61.0</i>		<i>-.3</i>	<i>60.7</i>		
					<i>18.95</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: _____ Transparency: _____

REMARKS: _____ 11-5314

4-7-5 - Rec.

1,4

4' Inter. }
 x 12' net }
 x 20' net }

Toward the road for 5 to 6	min. going at			
	100 ft.			

NOTES

[illegible]

At anchor

72. ... 1910

* depth in feet - 1000 ft. (1000 ft. deep)

Chart 1204

1. <i>Staphylinus</i> <i>Staphylinus</i>	0.6
2. <i>Staphylinus</i> <i>Staphylinus</i>	.9

Druck und Station. April 29, 1900

A	1/2 inch inside	1/2 inch inside
B	1/2 inch inside	1/2 inch inside
C	1/2 inch inside	1/2 inch inside
D	1/2 inch inside	1/2 inch inside
E	1/2 inch inside	1/2 inch inside

Note: 1st visit, 7-8-62 and 2nd visit, 9-5-62
at N. V. S. S. at San Bartolome Bay
-a 925 am - c- 1100 am.

a 925 am ... 1100 am.
b
c
d

Station No. *H 1121*

Date: 4-11-75

191 *l*

Hour: 7:00 A. M. to . M.

Position: Lat. Long.

Locality: Lower Calif.

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS: Under way

11—5314

Rand

Station No. H 6427

Date:

191 *l*

Hour: 1⁰⁰ P.M. to . M:

Position: Lat. Long.

Locality:

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
				-0.3	58.7 (c 14.83)	X	

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS: Made way
Rapid

11—5314

Station No. *11 6428* Date: *June 10* 191*6*

Hour: *2:01* P. M. to . M.

Position: Lat. Long.

Locality: *San Diego Bay, San Diego*

Depth: ** 7 fath* Bottom: *gy. s.* Sample: *(ligible sdg. red)*

Wind: Direction, Force, *3*

Sea: *S* Sky: *bc*

TEMPERATURES

Depth <i>meters</i>	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>5</i>	<i>R: S-V 496</i>	<i>14.26</i>	<i>15.2</i>	<i>+0.15</i>	<i>14.50</i>		<i>SK11</i>
	<i>L: S-V 494</i>	<i>14.34</i>	<i>15.9</i>	<i>—</i>	<i>—</i>		
<i>10</i>	<i>N-2 R: 98256</i>	<i>56.5</i>	<i>—</i>	<i>-.5</i>	<i>56.0</i>		
	<i>N-2 L: 62855</i>	<i>56.7</i>	<i>—</i>	<i>-.8</i>	<i>55.9</i>		
<i>surf</i>	<i>N-2 12453</i>	<i>58.1</i>		<i>-.3</i>	<i>58.1</i>		
					<i>14.50</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: *De Long, rec.* 11-5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
#12 9-20 150 Weight	10			

11—5314

NOTES

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.
 2. *Journal of the American Medical Association*, 1997; 277: 1037-1040.
 3. *Journal of the American Medical Association*, 1997; 277: 1041-1044.

At anchor
5.40 pm. Barbu. W 13.1 D. 1. 80.70

$\frac{8}{10}$... $N \rightarrow b$... D

58.1 14.50

* 7 fms. = 12 meters $\frac{28.1}{14.50}$

Chart 1370

$$s_{\alpha}^2(t) = s_{\alpha}^2(t_0) + \frac{1}{2} \omega_{\alpha}^2 (t - t_0)^2 \quad \text{for } t \in [t_0, t_0 + 1/\omega_{\alpha}]$$

Station No. H 6429 Date: April 26 1916

Hour: 7⁰⁰ A. M. to M.

Position: Lat. 25-46-21 N Long. 118-04-25 W

Locality: Off Lower Cay.

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, Force,

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
11.5	11292503	64.0		-1.3	63.7 17.61	0	

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS: Under way
Barrington

11—5314

Station No. 171127

Date:

1916

Hour: 3:00 P. M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
surf	112 9852-2	63.5		-0.3	63.5 17.50	X	

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS: smoke way
Rough

11-5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	

11-5314

NOTES

11. ~~16.5~~ 16.5 7870

Chart 1006

San Lazaro Lt. (bars 1/2 1/2 1/2) dist. 11.5 mi.

Station No. *H 6434*Date: *0*

191

Hour: *6.38* P. M. to

P. M.

Position: Lat.

Long.

Locality: *Magdalena Bay, B. M.*Depth: *32* *m.* Bottom: *Fine sand* Sample:Wind: Direction, *NW* Force,

Sea:

Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>surf</i>	<i>N-298573</i>	<i>17.0</i>		<i>-.3</i>	<i>67.6</i> <i>17.00</i>		
<i>3</i>	<i>RS-V 497</i>	<i>14.2</i>					<i>3</i>
<i>16</i>	<i>S-V 493</i>	<i>14.2</i>					
	<i>S-V 497</i>	<i>14.2</i>					
	<i>S-V 493</i>	<i>14.2</i>					
	<i>S-V 496</i>	<i>13.0</i>			<i>13.0</i>		
	<i>S-V 494</i>	<i>13.9</i>					
	<i>N-298160</i>			<i>-.5</i>	<i>55.5</i>		
	<i>N-271738</i>			<i>-.8</i>	<i>55.4</i>		
	<i>N-298156</i>			<i>.5</i>	<i>55.5</i>		
	<i>N-292858</i>			<i>-.9</i>	<i>55.7</i>		
<i>20</i>	<i>RS-V 805</i>	<i>13.0</i>	<i>14.8</i>		<i>12.95</i>		<i>1</i>
	<i>RS-V 800</i>	<i>13.0</i>	<i>15.0</i>		<i>13.60</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

Ship at anchor

11-6314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
21. 100m		7:21	7:27	
# 12 + 20		7:24	7:54	
150m 60k				
Note: ... depth 100				

11-5314

NOTES

0771 ... R/R

21. 100m 7:07 ... 7:27

7:24 ... 7:54

11-15.5 12-17.5

15.6 84%

April 27

11. 100m, ...

Chart 1636

... N 86 W ... 1.6 ...

... S 71 W ... 1.5

(Launch)

Independent Station April 27 1911

- A 1.5 mi. ...
- B 0.5 mi. ...
- C 1.5 ...
- D 1.0 ...
- E 5.5 mi. ...

19 58.8 15.7 60.3

11—5314

11 ~~14.5~~ 14.9 10 15.7
91%

Chart 1664

~~Fruit color~~ ~~St. brown~~ ~~S. Sl. yellow~~ ~~dist.~~ ~~S. 4 mm.~~

Station No. 176426

Date:

191

Hour: 9:00 A. M. to 10:00 . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf.	N-29853	60.2		-.3	60.0 15.56		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS: *Abundant* 17 May

11-5314

Station No. *H 6438*

Date: 10-21-1911 191

Hour: 1:00 P. M. to M.

Position: Lat. _____ Long. _____

Locality:

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

[illegible]

Color of water:

Transparency:

REMARKS: Under way
Barrington

Station No. 276.000

Date: 11/11/191

Hour: 5⁰⁰ P. M. to M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

31—6118

Station No. H 6441

Date: April 28, 1916 191

Hour: 7⁰⁰ P. M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	

11-5314

NOTES

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Entrada 5 April 1966
hours 1865 to 1900, 454.120 m

Date: April 29, 1916

Hour: 6:30 A. M. to . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11—5314

REMARKS: Ship under way
after

For bearings see under 6445 B p. 2

Station No. 116115 (A) Date: Apr 27 1916

Hour: 1.05 P.M. to 2:25 P.M.

Position: Lat. Long.

Locality: San Lucas Bay, Mex

Depth: 27 fms Bottom: oo & fine gy S Sample:

Wind: Direction, SW Force, 2.

Sea: Smooth Sky: bcy Ci S. 1

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	N-2 98523	71.5		-.3	71.2 21.78	X	
5	RN-298760	69.3	-	-.4	68.9	X	Ext 2
	L N-2 71738	69.6	-	-.8	68.8		
10	RS-V 805	19.5	20.5	2.23	19.18	X	
	L R 150	19.4	20.9	+1.6	19.56		
	N-298256	65.0		-.4	64.6		
	N-2 62858			-.5	64.5		
	S-V 497	14.7?			14.83		
	S-V 493	14.7?			14.83		
	S-V 496	19.5	21.4		19.85		
	L S-V 494	19.65	21.4				

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11-5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
4' Intern # 12 + 20 Vertical haul	10m	7:10	7:25	

11-5314

NOTES

12:30 W 71.1 51.3
Surf. 71.7 71.4 no sand

21.59

21.59

at 1:35 pm
11' 1.2

6:30 p.m. Synchronous at 100 D 20.4
(7.2 # 9852-3) 69.7
69.6

8:30 W 16.8 D 21.2 66.1 65.7
10:30 W 16.8 D 21.2 66.1 65.8
12:30 W 16.8 D 21.2 66.1 65.8

W 16.8 D 21.2 66.1 65.8
12.1

Station No. *H 6445 (B)* Date: *May 1*

1916

Hour: *1:8:25 P.M.* to *1:15 P.M.*

Position: Lat. Long.

Locality: *San Lucas Bay*Depth: *22 m* Bottom: Sample:

Wind: Direction, Force,

Sea: Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Surf</i>	<i>T-298573</i>	<i>61.1</i>		<i>-1.3</i>	<i>60.8</i> <i>16.00</i>	<i>0</i>	
<i>5 m</i>	<i>RS-V 803</i>	<i>15.6</i>	<i>16.6</i>	<i>+0.13</i>	<i>15.73</i>	<i>x (5.2)</i>	
	<i>LR 150</i>	<i>15.6</i>	<i>17.1</i>	<i>+0.17</i>	<i>15.77</i>		
<i>10 m</i>	<i>RN-298256</i>	<i>59.0</i>		<i>-1.4</i>	<i>58.6</i>		<i>#</i>
	<i>LN-262855</i>	<i>59.0</i>		<i>-1.5</i>	<i>58.5</i>		
<i>15 m</i>	<i>RN-298260</i>	<i>58.9</i>		<i>-1.5</i>	<i>58.4</i>		<i>#</i>
	<i>LN-271738</i>	<i>59.0</i>		<i>-1.6</i>	<i>58.4</i>		
<i>20 m</i>	<i>RS-V 497</i>	<i>8.65 (2)</i>	<i>15.2</i>		<i>?</i>	<i>0</i>	<i>#</i>
	<i>LS-V 493</i>	<i>14.2 (2)</i>	<i>15.2</i>				
<i>25 m</i>	<i>RS-V 496</i>	<i>14.15</i>	<i>16.2</i>		<i>14.30</i>	<i>0</i>	<i>#</i>
	<i>LS-V 494</i>	<i>12.9</i>	<i>16.3</i>		<i>2</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

*Ship remained at anchor at H 6445,
San Lucas Bay, April 30, May 1 and May 2*

Rain

NETS, ETC., USED

[illegible]

11—5314

NOTES

* Bottle #2 not closed; R 8.65; L 14.2

Therapsid digits recorded from 29
mol. digit. last year, Jan., p. 27 m.
According to some of the last
shown in the 1st & 2nd, etc. (Dec 1).

17.3

Chart 1666

Obs. *ap. m. (lost in rain)* - bears N 70 W
dist. 5/8 mi.

$$d = 5/8 \text{ mi.}$$

1. *Phlox pilularis* 1. *Calluna* 1. *72 E*
2. *3/4* mi.

1 2 3/4 inc

Station No. *H 6445 C* Date: *May 1* 191*6*

Hour: *1:59 P. M.* to *2:05 P. M.*

Position: Lat. Long.

Locality:

Depth: Bottom: Sample:

Wind: Direction, Force,

Sea: Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Surf</i>	<i>N-Z 98523</i>	<i>60.9</i>		<i>-.3</i>	<i>60.6</i> <i>15.89</i>	<i>0</i>	<i>#1</i>
<i>5m</i>	<i>RS-V 497</i>	<i>4.25?</i>	<i>16.0</i>		<i>Y</i>	<i>X</i>	<i>#3</i>
	<i>LS-V 493</i>	<i>15.4</i>	<i>16.3</i>				
<i>10</i>	<i>RN-2 98760</i>	<i>58.5</i>		<i>-.5</i>	<i>58.0</i> <i>14.44</i>	<i>X</i>	<i>#2</i>
	<i>LN-2 71738</i>	<i>58.0</i>		<i>-.6</i>	<i>57.4</i> <i>14.11</i>		
<i>15</i>	<i>LN-2 98756</i>	<i>57.8</i>		<i>-.4</i>	<i>57.4</i>	<i>X</i>	<i>#5</i>
	<i>LN-2 62855</i>	<i>58.0</i>		<i>-.7</i>	<i>57.3</i>		
<i>20</i>	<i>RS-V 805</i>	<i>14.0</i>	<i>15.1</i>	<i>-.7</i>	<i>13.98</i> <i>13.00</i>	<i>X</i>	<i>#1</i>
	<i>LR 150</i>	<i>14.0</i>	<i>15.4</i>	<i>1.03</i>			

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

Randin

Station No. *1142*

Date: *1/2/11*

191*6*

Hour: *3:00* *15 P.* M. to *3:06* . M.

Position: Lat. _____

Long. _____

Locality: _____

Depth: _____

Bottom: _____

Sample: _____

Wind: Direction, _____

Force, _____

Sea: _____

Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Surf</i>	<i>N-298523</i>	<i>60.6</i>		<i>-.3</i>	<i>60.3</i>		
<i>5 m</i>	<i>RN-298756</i>	<i>60.0</i>		<i>-.4</i>	<i>59.6</i>		<i>#5</i>
	<i>N-262855</i>	<i>60.0</i>		<i>-.4</i>	<i>59.6</i>		
	<i>N-298260</i>	<i>58.2</i>		<i>-.5</i>	<i>57.7</i>		<i>#2</i>
	<i>N-271738</i>	<i>58.0</i>		<i>-.6</i>	<i>57.4</i>		
	<i>S-V 496</i>	<i>14.6</i>	<i>15.4</i>	<i>-.13</i>	<i>14.47</i>		
	<i>S-V 494</i>	<i>9.69</i>	<i>15.5</i>		<i>9.69</i>		
	<i>S-V 805</i>	<i>14.2</i>	<i>15.3</i>	<i>-.07</i>	<i>14.13</i>		<i>#1</i>
	<i>R 150</i>	<i>14.30</i>	<i>15.5</i>	<i>+.03</i>	<i>14.33</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: _____

Transparency: _____

REMARKS:

11-5314

Bottle #1 was put in, in place of #3, since the latter did not seem to register. Bottle #1 registers right, when pushed.

14.29 14.30

1 2
TIME 3

NOTES

395
V. 15.1 D. 2.1
19.2

Station No. 11151

Date: 11/1/1911

191

Hour: 4:01:35 P.M. to 4:06:40 P.M.

Position: Lat. _____ Long. _____

Locality: _____

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	N-298523	60.2		-.3	^{15.50} 59.9	X	
5	RS-V 805	15.09	15.5	+.15	15.24		F.H. #1
	LR 150	15.09	15.6	+.15	15.24		
	RS-V 496	15.12	15.5	+.17	15.25		#4
	LS-V 494	5.49	15.6	?	.9		
15	N-298260	58.9	—	-.5	58.4		#2
	N-271738	57.0	—	-.6	56.4		
	N-298256	55.6	—	-.4	55.2		#5
	N-262855	55.4	—	-.4	55.0		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: _____ Transparency: _____

REMARKS: 12-11-11 Not used this time

Station No. *H 6445 F* Date: *May 1916* 191

Hour: *5:00:05 P.M.* to *5:06 P.M.*

Position: Lat. Long. \

Locality:

Depth: Bottom: Sample:

Wind: Direction, Force,

Sea: Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Surf</i>	<i>N-298523</i>	<i>66.0</i>		<i>-.3</i>	<i>59.7</i>		
<i>5 meters</i>	<i>R N-298260</i>	<i>59.8</i>		<i>-.5</i>	<i>59.3</i>		
	<i>N-271738</i>	<i>59.7</i>		<i>-.6</i>	<i>59.3</i>		
<i>10 "</i>	<i>R S-V 805</i>	<i>14.61</i>	<i>15.0</i>	<i>+0.05</i>	<i>14.66</i>		
	<i>R 150</i>	<i>14.60</i>	<i>15.2</i>	<i>+0.1</i>	<i>14.70</i>		
	<i>R S-V 496</i>	<i>14.40</i>	<i>15.2</i>	<i>+0.18</i>	<i>14.58</i>		
	<i>L S-V 494</i>	<i>0.6</i>	<i>15.4</i>	<i>9.</i>	<i>74.33</i>		
	<i>R N-298256</i>	<i>58.2</i>		<i>-.4</i>	<i>57.8</i>		
	<i>L N-262855</i>	<i>58.1</i>		<i>-.7</i>	<i>57.4</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

11-5314

Rough

NETS, ETC., USED

[illegible]

11—5314

NOTES

Don't know if I'm

W 11.5
12.5

Don't

Station No. *H 6445 G* Date: *May 1* 191*6*

Hour: *6:00 P. M.* to *6:06 P. M.*

Position: Lat. _____ Long. _____

Locality: _____

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Surf</i>	<i>N-298573</i>	<i>60.0</i>		<i>-.3</i>	<i>59.7</i> ^{<i>12139</i>}	<i>X</i>	
<i>5 fms</i>	<i>RN-298260</i>	<i>59.5</i>	<i>14.90</i>	<i>-.5</i>	<i>59.0</i>		<i>59.2</i>
	<i>L N-271738</i>	<i>60.0</i>	<i>15.0</i>	<i>-.6</i>	<i>59.4</i>		
<i>10 "</i>	<i>RS-V 805</i>	<i>14.61</i>	<i>—</i>	<i>+0.05</i>	<i>14.66</i>		<i>14.71</i>
	<i>LR 150</i>	<i>14.62</i>	<i>—</i>	<i>+0.01</i>	<i>14.72</i>		
<i>5 "</i>	<i>RS-V 497</i>	<i>14.0</i>	<i>15.2</i>	<i>-.05</i>	<i>14.05</i>		<i>14.05</i>
	<i>LS-V 493</i>	<i>9.74</i>	<i>15.2</i>		<i>9.7</i>		
<i>7 "</i>	<i>RN-298256</i>	<i>57.6</i>		<i>-.4</i>	<i>57.2</i>		<i>57.5</i>
	<i>LN-261855</i>	<i>57.8</i>		<i>-.4</i>	<i>57.4</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: _____ Transparency: _____

REMARKS: _____

Ramlin

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
4' net in 2' D	0-100	6:30	6:40	

11-5314

NOTES

May 2, 1916
 6:30 W H. 15.2 D 21.1
 15.1

May 2, 1916
 at anchor, H 64145

6:30 W H. 15.2 D 21.1
 15.1 58.5 14.72

8:00 W H. 15.2 D 19.4 (shade)
 15.1 58.7 14.83

10:00 W H. 15.2 D 19.4 (shade)
 15.1 59.1 14.83

Station No. H 6446 Date: May 2 1916

Hour: 12:30 P. M. to — . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer -- Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	A-248573	—				X	

CURRENTS

[illegible]

Color of water:

Transparency:

REMARKS: *Under way*
Run in

NETS, ETC., USED

[illegible]

11—5314

NOTES

Psych. W ~~18.2~~ D 21.2
18.3
7790

Chart 622

Longitude $109^{\circ} 56' 50''$ W

Latitude $22^{\circ} 35' 10''$ N

Station No. H 6447 Date: May 2 1916

Hour: 7:30 P. M. to — . M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: Sky:

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

Under way
Rapidly

11—5314

Station No. *H 6446*

Date: / /

1916

Hour: 4:30 P. M. to — . M.

Position: Lat. Long.

Locality:

Depth: Bottom: Sample:

Wind: Direction, Force,

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	N-2 98523	74.3		-.3	74.0	Taken but wrongly labeled	

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS: Under way
Rough

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	

11-5314

NOTES

Depth W 18.5 D 22.0
 18.6 72%

Chart 622

Long. 110° 8' 20" W
 Lat. 21° 59' 00" N

NETS, ETC., USED

[illegible]

11—5314

NOTES

Page No. ~~182~~ 183 Date 6/10

April 63:

Long. 112° 14' 55" W
Lat. 51° 01' 34" N

Station No. *A 6450*

Date: 1 May 5

191 *l*

Hour: 6:30 A. M. to — . M.

Position: Lat. _____ Long. _____

Locality: _____

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

Alvin
Rauslin

Station No. H 6451

Date: May 3

191 *l*

Hour: 8:30 A. M. to — M.

Position: Lat. _____ Long. _____

Locality:

Depth: Bottom: Sample:

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Surf	N. 2707	74.5		-0.3	^{23.44} 74.2	X	

CURRENTS

[illegible]

Color of water:

Transparency:

REMARKS:

11—5314

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	

11-5314

NOTES

Regain. WAGE D220
16.5

Chart 1046

Long. 110° 41' 15" W
Lat 19° 20' 31" N

Station No. *H 6452*

Date: May 3

1916

Hour: 10:30 A. M. to — . M.

Position: Lat. _____ Long. _____

Locality:

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, Force,

Sea: _____ Sky: _____

TEMPERATURES

[illegible]

CURRENTS

[illegible]

Color of water:

Transparency:

REMARKS:

Under way
Rauski

11—5314

NETS, ETC., USED

[illegible]

11—5314

NOTES

Psych. W 18.1 D 22.8
18.2

Chart 1006

Long. $110^{\circ} 48' 15''$ W
Lat. $19^{\circ} 1' 15''$ N

Station No. *H 6453*Date: *May 3*191*6*Hour: *12:30 P.* M. to *—* . M.

Position: Lat. _____ Long. _____

Locality: _____

Depth: _____ Bottom: _____ Sample: _____

Wind: Direction, _____ Force, _____

Sea: _____ Sky: _____

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Surf</i>	<i>N-298523</i>	<i>76.4</i>		<i>-0.3</i>	<i>24.50</i> <i>76.1</i>	<i>taken but wrongly labelled</i>	

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: _____

Transparency: _____

REMARKS: _____

11-5314

NETS, ETC., USED

[illegible]

11—5314

NOTES

Psych. W 19.2 D 23.2
19.3

Chart 1006

Long 110° 50' 45" W
Lat 18° 40' 30" N

Bearings checked & changed
R + A.

Therm. correction
all checked
E. P. R.

Psychrometer & surface
temperatures checked
J. P. S.